

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951	
Filing Date	2006-09-15	
First Named Inventor	Shelley D. Minteer	
Art Unit	TBD	1795
Examiner Name	TBD	Kalafut
Attorney Docket Number	SLU 03-022(4556.8)	

1 of 10

U.S.PATENTS						<input type="button" value="Remove"/>
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/SK/	1	4117202		1978-09-26	Beck, Timothy	
/SK/	2	4224125	B1	1980-09-23	Nakamura et al.	
/SK/	3	4490464		1984-12-25	Groton et al.	
/SK/	4	4705503		1987-11-10	Dorman et al.	
/SK/	5	4761209		1988-08-02	Bonaventura et al.	
/SK/	6	5211984		1993-05-18	Wilson, Mahlon S.	
/SK/	7	5262035		1993-11-16	Gregg et al.	
/SK/	8	5262305		1993-11-16	Heller et al.	

/Stephen Kalafut/

03/12/2008

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951	
Filing Date	2006-09-15	
First Named Inventor	Shelley D. Minteer	
Art Unit	TBD	1795
Examiner Name	TBD	Kalafut
Attorney Docket Number	SLU 03-022(4556.8)	

2 of 10

/SK/	9	5264092		1993-11-23	Skotheim et al.	
/SK/	10	5264105		1993-11-23	Gregg et al.	
/SK/	11	5320725		1994-06-14	Gregg et al.	
/SK/	12	5356786		1994-10-18	Heller et al.	
/SK/	13	5393615		1995-02-28	Corey et al.	
/SK/	14	5521101		1996-05-28	Saini et al.	
/SK/	15	5593852		1997-01-14	Heller et al.	
/SK/	16	5665222		1997-09-09	Heller et al.	
/SK/	17	5718947		1998-02-17	Martin et al.	
/SK/	18	6294281	B1	2001-09-25	Heller, Adam	
/SK/	19	6294291	B1	2001-09-25	Ozaki et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951	
Filing Date	2006-09-15	
First Named Inventor	Shelley D. Minteer	
Art Unit	TBD	1795
Examiner Name	TBD	Kalafut
Attorney Docket Number	SLU 03-022(4556.8)	

3 of 10

/SK/	20	6387625		2002-05-14	Eckhardt et al.	
/SK/	21	6460733	B2	2002-10-08	Acker et al.	
/SK/	22	6500571	B2	2002-12-31	Liberatore et al.	
/SK/	23	6531239	B2	2003-03-11	Heller, Adam	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/SK/	1	20020025456	A1	2002-02-28	Gieshoff et al.	
/SK/	2	20020025469	A1	2002-02-28	Heller, Adam	
/SK/	3	20020127440	A1	2002-09-12	Yamamoto et al.	
/SK/	4	20030027023	A1	2003-02-06	Dutil et al.	
/SK/	5	20030039868	A1	2003-02-27	Liberatore et al.	

/Stephen Kalafut/

03/12/2008

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951	
Filing Date	2006-09-15	
First Named Inventor	Shelley D. Minteer	
Art Unit	TBD	1795
Examiner Name	TBD	Kalafut
Attorney Docket Number	SLU 03-022(4556.8)	

4 of 10

/SK/	6	20030087144	A1	2003-05-08	Sun et al.	
/SK/	7	20030148169	A1	2003-08-07	Wilner et al.	
/SK/	8	20030164335	A1	2003-09-04	Grate et al.	
/SK/	9	20030198858	A1	2003-10-23	Sun et al.	
/SK/	10	20040101741	A1	2004-05-27	Minteer et al.	
/SK/	11	20040121018	A1	2004-06-24	Grate et al.	
/SK/	12	20040217016	A1	2004-11-14	Khan, Tahir S.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T5
/SK/	1	0300082	EP	A	1989-01-25	Bridgestone Corporation		<input type="checkbox"/>
/SK/	2	0022688	WO	A3	2000-04-20	Sarnoff Corporation		<input type="checkbox"/>

/Stephen Kalafut/

03/12/2008

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951	
Filing Date	2006-09-15	
First Named Inventor	Shelley D. Minteer	
Art Unit	TBD	1795
Examiner Name	TBD	Kalafut
Attorney Docket Number	SLU 03-022(4556.8)	

5 of 10

/SK/	3	03106966	WO	A2	2003-12-24	Therasense, Inc.	<input type="checkbox"/>
/SK/	4	04079848	WO	A	2004-09-16	Yissum Research Development Company of the Hebrew	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
/SK/	1	BLAEDEL et al. "Study of the Electrochemical Oxidation of Reduced Nicotinamide Adenine Dinucleotide" Analytical Chemistry 47:1337-1338 (1975). (no month)	<input type="checkbox"/>
/SK/	2	CHEN et al. "A miniature biofuel cell" Journal of American Chemical Society 123:8630-8631 (2001).D (no month)	<input type="checkbox"/>
/SK/	3	DAVIS et al. "Bioelectrochemical Fuel-Cell and Sensor Based on a Quinoprotein, Alcohol-Dehydrogenase" Enzyme and Microbial Technology, 5:383-388 (1983). (no month)	<input type="checkbox"/>
/SK/	4	FREBORTOVA et al., "Intramolecular Electron Transport in Quinoprotein Alcohol Dehydrogenase of Acetobacter Methanolicus: A Redox-titration Study" Biochimica et Biophysica Acta, 1363:24-34 (1998). (no month)	<input type="checkbox"/>
/SK/	5	GREEN et al., "Inversion of the Substrate Specificity of Yeast Alcohol Dehydrogenase" Journal of Biological Chemistry, 268:7792-7798 (1993). (no month)	<input type="checkbox"/>
/SK/	6	KIM et al. "A Miniature Membrane-less Biofuel Cell Operating Under Physiological Conditions at 0.5V" Journal of Electrochemical Society, 150(2):A209-A213 (2003). (no month)	<input type="checkbox"/>
/SK/	7	LEONIDA et al. "Co-electropolymerization of a Viologen Oligomer and Lipoamide Dehydrogenase on an Electrode Surface. Application to Cofactor Regeneration" Bioorganic & Medicinal Chemistry Letters, Oxford, GB, 6(4):1663-1666 (1996). (no month)	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951	
Filing Date	2006-09-15	
First Named Inventor	Shelley D. Minteer	
Art Unit	TBD	1795
Examiner Name	TBD	Kalafut
Attorney Docket Number	SLU 03-022(4556.8)	

6 of 10

/SK/	8	PALMORE et al. "A Methanol/Dioxygen Biofuel Cell that Uses NAD+-Dependent Dehydrogenases as Catalysts: Application of an Electro-Enzymic Method to Regenerate Nicotinamide Adenine Dinucleotide at Low Overpotentials" Journal of Electroanalytical Chemistry, 443:155-161 (1998). (no month)	<input type="checkbox"/>
/SK/	9	PLOTKIN et al. "Methanol Dehydrogenase Bioelectrochemical Cell and Alcohol Detector" Biotechnology Letters, 3 (4):187-192 (1981). (no month)	<input type="checkbox"/>
/SK/	10	SCHRENK et al., "Effect of Mixture Casting Nafion® with Quaternary Ammonium Bromide Salts on the Ion-Exchange Capacity and Mass Transport in the Membranes" Journal of Membrane Science, 205:3-10 (2002). (no month)	<input type="checkbox"/>
/SK/	11	PALMORE TAYLOR et al., "Microbial and Enzymatic Biofuel Cells" in ACS Symposium Series, 566:271-290 (1994). (no month)	<input type="checkbox"/>
/SK/	12	THOMAS et al. "Effects of Annealing on Mixture-Cast Membranes of Nafion® and Quaternary Ammonium Bromide Salts" Journal of Membrane Science, 213:55-66 (2003). (no month)	<input type="checkbox"/>
/SK/	13	WORTHINGTON, V, "Worthington Alcohol Dehydrogenase" Worthington Enzyme Manual 16:1-22 (1988) http://www.worthington-biochem.com/ADH/default.html (no month)	<input type="checkbox"/>
/SK/	14	YUE et al. "Enzymatic Oxidation of C1 Compounds in a Biochemical Fuel Cell" Chemical Engineering Journal, 33B: B69-B77 (1986). (no month)	<input type="checkbox"/>
/SK/	15	ZHOU et al., "The Electrochemical Polymerization of Methylene Green and its Electrocatalysis for the Oxidation of NADH" Analytica Chemica Acta, 329:41-48 (1996). (no month)	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button **EXAMINER SIGNATURE**

Examiner Signature	/Stephen Kalafut/	Date Considered	03/12/2008
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10598951
Filing Date	2006-09-15
First Named Inventor	Shelley D. Minteer
Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	SLU 03-022(4556.8)

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication

from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to

any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Janet S. Hendrickson/	Date (YYYY-MM-DD)	2007-01-18
Name/Print	Janet S. Hendrickson, Ph.D.	Registration Number	55,258

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.